

Chemistry Report for Case # P-19-0140

General

Submitter: [REDACTED]	
Contact: [REDACTED]	Contact Telephone No.: [REDACTED]
TS No.: AB80KB	
Chemist: D Lin	Contractor Support: Y
PV Init (kg/yr): [REDACTED]	PV Max (kg/yr): [REDACTED]
Binding Option: <input type="checkbox"/>	Exposure-Based Review: [REDACTED]
Manufacture: <input checked="" type="checkbox"/>	Import: <input type="checkbox"/>

CAS Number: [REDACTED]
Chemical Name [REDACTED]
Trade Name: [REDACTED]
IES Order: 439408-3
Generic Name: Perfluorodioxalkyl vinyl ether

Chemical Structure

[REDACTED]

Physical Chemical Properties

Molecular Formula: [REDACTED]	Molecular Weight: [REDACTED]
% < 500:	% < 1000:
MP:	MP Estimate:
BP:	BP Pressure: [REDACTED]
BP Estimate:	
VP (Torr): [REDACTED]	VP Estimate (Torr):
Water Solubility (g/L):	Water Soluble Estimate (g/L): [REDACTED]
Log P:	Log P Estimate: [REDACTED]
Physical State — Neat: [REDACTED]	Physical State — Manuf: [REDACTED]

Physical State — Processing: NA
Physical State — End Use: Destroyed

Additional Chemical Info

Submitted Data: [REDACTED]; no MP seen from [REDACTED] to [REDACTED] °C (OECD 102); BP = [REDACTED] °C at [REDACTED] torr (OECD 103); VP = [REDACTED] torr at [REDACTED] °C, [REDACTED] torr at [REDACTED] °C, [REDACTED] torr at [REDACTED] °C; WS < [REDACTED] g/L (OECD 105, limit of quantitation); log P = [REDACTED] (Sub.Est, EPI); flash pt. = [REDACTED] °C; surface tension = [REDACTED] mN/m; autoignition temp. = [REDACTED] °C; density = [REDACTED] g/cm³.

Literature Data [STN eProp]: BP = 66°C at 760 torr.

Estimated Data [EPI with MP = -80°C, BP = 73.5°C, VP = 108 torr, [REDACTED]; BP = 99.78°C; VP = 125 torr; WS = 0.00656 g/L; log P = 4.50. .

Estimated Data [STN/ACD Labs]: BP = 107.1°C; VP = 32 torr; WS = 250 g/L; log P = 8.035.

This estimated WS above is not credible, given the OECD 105 study showing a measured WS < 0.061 g/L. Likewise, the above estimated log P is too high, given that the corresponding estimated WS is 250 g/L.

Note about partition coefficient study done according to OECD 107 (shake flask method):

The study authors observed that the PMN substance reacted over time when stirred in [REDACTED]

Uses

Consumer Use? No

Use:

Intended use: [REDACTED]

Synthetic scheme: P-19-138 -> P-19-139 -> P-19-140 [REDACTED]

Analogues (same use): [REDACTED]

Patents (same use): [REDACTED]

Other Uses:

Analogues (other uses): [REDACTED]

Analogues (same use and other uses): [REDACTED]

Patents (other uses): [REDACTED]

Reaction Description

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Pollution Prevention Analysis(P2 Analysis:)

P2 Claims:	
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Analogs

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Comments/Telephone Log

Artifact	Update/Upload Time